

OFFSHORE PLATFORM
WITH VERTICALLY-RESTRAINED BUOY AND WELL DECK

ABSTRACT OF THE DISCLOSURE

- 5 An offshore floating platform for the drilling and/or production of petroleum products from the seabed includes a production deck and a buoyancy apparatus vertically guided and restrained within the platform. The buoyancy apparatus includes a well deck on its upper surface on which are mounted at least two surface trees. At least two vertical risers are supported by the buoyancy apparatus and are attached to the well deck. Each of the risers is connected to one of the surface
10 trees and extends down through the buoyancy apparatus for connection to a seabed wellhead. At last one tendon assembly secures the buoyancy apparatus to the seabed. The tendon assembly is constructed with at least two concentric tubular tendon elements, and it is attached to the well deck and extends along the vertical centerline of the buoyancy apparatus. A manifold on the well deck is fluidly coupled to the surface trees through a pressure reduction choke, and a low
15 pressure jumper fluidly couples the manifold to petroleum handling apparatus on the production deck.